

Fri Mar 22 08:49:00 2002

pct-us01-24104a-1.rge

Page 1

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 20, 2002, 17:19:05 : Search time 4182.4 seconds
(without alignments)
10145.071 Million cell updates/sec

Title: PCT-US01-24104A-1
Sequence: 1 tctgattccactccacga.....tataataaagatataag 2572

Scoring table: IDENTITY:100, GAP:10, GAPEXT:1.0

Search: 1472140 seqs, 8248589755 residues

Total number of hits satisfying chosen parameters: 2944280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

1: gb_ba:*
2: gb_hhg:*
3: gb_hhg:*
4: gb_hhg:*
5: gb_hhg:*
6: gb_hhg:*
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35: gb_hhg:*
36: gb_hhg:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2572	100.0	2572	D88213	D88213 Homo sapien
2	2469.8	96.0	2653	AF081163	AF081163 Homo sapien
3	1617	62.9	3741	AB012942	AB012942 Homo sapien
4	1609	62.6	189149	AC016889	AC016889 Homo sapien
5	1609	62.6	190100	AC016889	AC016889 Homo sapien
6	1609	62.6	204685	AC016889	AC016889 Homo sapien
7	1144.8	44.5	200828	AC025424	AC025424 Homo sapien
8	1144.8	44.5	250437	AL590969	AL590969 Mus muscu
9	1017.8	39.6	2501	AF067406	AF067406 Homo sapien
10	1017.8	39.6	2501	AF067406	AF067406 Homo sapien
11	954.6	37.1	2664	BOVFERA	BOVFERA Bos taurus
12	954.6	37.1	2664	BOVFERA	BOVFERA Bos taurus
13	954.6	37.1	2664	BOVFERA	BOVFERA Bos taurus
14	954.6	37.1	2664	BOVFERA	BOVFERA Bos taurus
15	954.6	37.1	2664	BOVFERA	BOVFERA Bos taurus
16	944	36.7	4452	AF054831	AF054831 Mus muscu
17	944	36.7	4452	AF054831	AF054831 Mus muscu
18	781	30.4	2614	AF047485	AF047485 Homo sapien
19	742.2	29.0	2073	AF047485	AF047485 Homo sapien
20	742.2	28.9	14357	AB012942	AB012942 Homo sapien
21	471.2	18.3	1051	AF078705	AF078705 Mus muscu
22	268.6	10.4	2441	AF078705	AF078705 Mus muscu
23	245.8	9.6	2538	AF078705	AF078705 Mus muscu
24	243.4	9.5	2375	AF078705	AF078705 Mus muscu
25	243.4	9.5	2375	AF078705	AF078705 Mus muscu
26	241	9.4	2473	AF078705	AF078705 Mus muscu
27	228	8.9	2668	AF078705	AF078705 Mus muscu
28	202.4	7.9	9903	AF078705	AF078705 Mus muscu
29	198.8	7.7	124876	AF078705	AF078705 Mus muscu
30	173.6	6.7	200828	AF078705	AF078705 Mus muscu
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34	120.2	4.7	991	AF078705	AF078705 Mus muscu
35	120.2	4.7	991	AF078705	AF078705 Mus muscu
36	116.2	4.5	1089	AF078705	AF078705 Mus muscu
37	114.8	4.5	1001	AF078705	AF078705 Mus muscu
38	101.6	4.0	1819	AF078705	AF078705 Mus muscu
39	98.6	3.8	1794	AF078705	AF078705 Mus muscu
40	92.4	3.6	169	AF078705	AF078705 Mus muscu
41	73.6	2.9	7218	AF078705	AF078705 Mus muscu
42	58.2	2.3	1156	AF078705	AF078705 Mus muscu
43	56.6	2.2	1128	AF078705	AF078705 Mus muscu
44	52.6	2.0	256172	AF078705	AF078705 Mus muscu
45	49.8	1.9	2778	AF078705	AF078705 Mus muscu

ALIGNMENTS

RESULT	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL
1	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
2	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
3	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
4	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
5	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
6	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
7	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
8	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
9	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
10	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
11	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
12	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
13	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
14	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
15	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
16	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
17	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
18	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
19	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
20	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
21	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
22	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
23	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
24	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
25	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
26	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
27	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
28	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
29	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
30	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
31	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
32	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
33	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
34	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
35	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	
36	D88213	D88213	2572 bp	07-FEB-1999	07-FEB-1999	07-FEB-1999	Homo sapiens	Submitted (02-OCT-1996)	Shimizu, N.	to the DDBJ/EMBL/Genbank databases.	

Submitted (02-OCT-1996) to the DDBJ/EMBL/Genbank databases.
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Japan (E-mail:shimizu@med.kato.ac.jp).
Tel:81-3-3351-2370(ex.2720), Fax:81-3-3351-2370)

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gene      /gene=type-elina
          27. .2216
CDS       /gene=AOC2*
          27. .2216
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 2572; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Oy	181	agagaccagctgattgcagacctagaccgcggagagatttcagacgtgatgcctttctga	240
Db	181	agagccagcgtgattgcagacctagaccgcggagagatttcagacgtgatgcctttctga	240
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Db	361	ggagacccccaactgcgcgcgggagagacatgcagctgcctctctttgtgtggaacaaacccaac	420

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Db	481	ctgtgagcgctcaacggcggggcccctgcctctcaacgctgcgcgggtctcgtgaagctgagt	540
Oy	541	ttacaacgatgtgtgggagatctgtaaagatgtgtgagcttaccgaagcaccatcttcgt	600
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Oy	781	acgagactgcacagaaagttcttactactctggagactactatgacagcttgagcaagt	840
Db	781	actgactctccagacagagttcttactactctggagactactatgacagcttgagcaagt	840
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Db	1021	cttttggcaatggggtgttcacacggcctgagaaatttgtatgtctggtcccaaggtgagc	1080
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Oy	1141	agacgactgactcgtctattctgtgataagcttttgaacccggtacaaacgaagcgagct	1200
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Oy	1381	cagccctctgtgtcagagctgtgtcactcctgtgcacacatcagatcaaatcttgagacttg	1440
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pct-us01-24104a-1.rge

AF081363	2653 bp	mRNA	PRI	17-JUN-1999
LOCUS				
DEFINITION				
Human sapiens retina copper-containing monamine oxidase (AOC2)				
ACCESSION				
AF081363				
VERSION				
AF081363.1				
KEYWORDS				
GI:5081318				
SOURCE				
human.				
ORGANISM				
human.				
taxonomic group				
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
Mammalia; Eultheria; Primates; Catarrhini; Homnidae; Homo.				
1 (bases 1 to 2653)				
Zhang, X. and McIntire, M. S.				
Human Copper-Containing Amlne Oxidases				
Unpublished				
2 (bases 1 to 2653)				
Zhang, X. and McIntire, M. S.				
Direct Submission				
Submitted (29-JUL-1998)				
Molecular Biology (151-S), VA Medical				
Center, 4150 Clement Street, San Francisco, CA 94121, USA				
This is the gene for a long form of the human retina amine oxidase				
(R6O-n). Cloning and sequencing of a truncated form of this gene				
has been published: Inamura et al. Genomics 40:277-283 (1997).				
Location/Qualifiers				
1..2653				

gene

CDS

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RAO (GenBank Accession Number D88213)*
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 /note="Copper hystidyl ligand of mature protein; metal-binding site"
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 ORIGIN

Query Match 96.0% Score 2469.8; DB 9; Length 2653;
 Best Local Similarity 96.7% Pred. No. 0;
 Matches 2565; Conservative 0; Mismatches 7; Indels 81; Gaps 1;

DB 481 CTGTGAGCGTCACGGCCGCCCTGCTTATCCAGCTGCGCCGCTGTGAGAGCTAGT 540
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 Oy 601 gctac 660
 Db 601 gctac 660
 Oy 661 tgcctcaag 720
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 Oy 721 tttccctcag 780
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 Oy 781 actgag 840
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 Oy 841 aag 900
 Db 841 aag 900
 Oy 901 gactcctcag 960
 Db 901 gactcctcag 960
 Oy 961 cccag 1020
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 Oy 1021 ccttgag 1080
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 Oy 1081 gaataag 1140
 Db 1081 gaataag 1140
 Oy 1141 agacag 1200
 Db 1141 agacag 1200
 Oy 1201 tggtag 1260
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 Oy 1261 gcaag 1320
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 Db 1321 tgcctcag 1380
 Oy 1381 cagcctcag 1440
 Db 1381 cagcctcag 1440
 Oy 1441 tggtag 1500
 Db 1441 tggtag 1500
 Oy 1501 ctttcag 1560
 Db 1501 ctttcag 1560
 Oy 1561 tggtag 1620
 Db 1561 tggtag 1620

Oy	1621	aaacggtgtgtatcgtgaagacgtgtgtgtttaaactgtgtgtgtccccgtgaacccgg	1680
Db	1621	AAAACTGGGTGTAAGCTGAAAGACCTGGTGTTTAAACCTGTGGCTGCCCCCTGAACCCGG	1680
Oy	1681	agacttgctacagcgcccaacagcttactcgcagagctctgtgaagaagagacctgacg	1740
Db	1681	AGACTGGCTACAGCCCCACAGCTACTCGCGAGGTCTGGGAAAGAGACCTGCACG	1740
Oy	1741	cttttctcttgggaagccccctaccccccttcaacgtgtcctaaacacagactcaatg	1800
Db	1741	CTTTTCTCTGGGAAGCCCCCTACCCCCCTACCTGTACTGTGCTAGCAACAGACTAATG	1800
Oy	1801	cgtgggtgcacacagcg	1818
Db	1801	CGTGGGTGCACACGGCGGTACCCGAATCCAGATCCACAGCCCCCTTGGCATATAC	1860
Oy	1819	-----gatcacagctgtgtgtgacc	1839
Db	1861	CCCTGAGAGTACATCGACAGAGGCCCTACGTGGGGGAGATACCAAGCTGTGTGATCC	1920
Oy	1840	agagaaaggaagagagtgacacagacagtagacttttaccagaaagacatctgtgacac	1899
Db	1921	AGGAAAGAGAGAGAGATCCACAGACAGTACGATATACACAGATACATGTGGACAC	1980
Oy	1900	ccacagttacctttgtcgaactcattcaacaatgaacacctcttaagagagatcgtgtgac	1959
Db	1981	CCACAGTACTCTTGTGCGACTTCATCAACAAAGAAACCCCTTACGAGAGAGATCTGTGG	2040
Oy	1960	ctgtgtgtcacacagcagcttcctgcagatcccccattgcgtaggaacatcccaacagatg	2019
Db	2041	CTTGGGTACAGCCACTCTCCGACATTCGCCATCCGACAGCATCCCAACACATGA	2100
Oy	2020	cctctgggaagaagagttgtgctctctgtctcgcacctaatactcttgtatgagagacct	2079
Db	2101	CTCTGGGAAACAGAGTTGAGTCTCTCTCTCCACCTATATCTTTGATGAGAGACCCCT	2160
Oy	2080	caactctccctctgtgcagtgatctgttgaagaaggccagatgcgtgtgtctctgacga	2139
Db	2161	CAATCTTCCCTCGACAGTGTACTTGTGAGAAAGGCCAGAGATGCTGGGCTGTGCACA	2220
Oy	2140	tcaaacctgtgtgcctgtcccccagacctgtgagagacctgtgtccggaactacccttct	2199
Db	2221	TCAATCTGTGGCTGTGCTCCCGACCTGTGAGACTGTGTCCGGACTTACCCCTTCT	2280
Oy	2200	ctbaccaaggtctcagtcctcgtgaggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt	2259
Db	2281	CTTACACAGGCTTACTAGTCTGAGAGGTGTGGGGGGCGTGTGTAGGCATGTACTTT	2340
Oy	2260	tcccggttcttcttcttcttcttctcgtgttcttcaaacctctcccccagattccacac	2319
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Oy	2320	gcctcaatgtctctcaccgaaaccccccaacatgcctgtgtgtgtgtgtgtgtgtgtgt	2379
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Oy	2380	gttacccttcaagtgtaactaataaagtatttttaataatactcaagaanaaatatca	2439
Db	2461	GTTACTCTTAAAGTGTAAATTAATAAATATTTTAAATTTTAAATAAATAAATAATCA	2520
Oy	2440	caaatcttaccacaaagt	2499
Db	2521	CAAACTCTACTACAGAAATAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	2580
Oy	2500	cattcaaaaggaagataatgaattgttgaacacagatgtgtgtgtgtgtgtgtgtgtgtgt	2559
Db	2581	CATTCAAAAGGAAGACTAAATGAATTTGTAAACAGAGTGTGATGTAAATTTTAATA	2640
Oy	2560	aaagagattcaag	2653
Db	2641	AAAAGTATTAAG	2653

LOCUS	DEFINITION	VERSION	REVISIONS	SEGMENT	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	MEDLINE	REFERENCE	AUTHORS	TITLE	JOURNAL	FEATURES
AB01294251	Homo sapiens AOC2 gene for retina-specific amine oxidase, exon 1.	AB012942	AB012942.1	GI:3510332	1 of 2	Homo sapiens DNA, clone_11b:Kelo BAC clone:K5515F.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	Imanura, Y., Noda, S., Mashima, Y., Kudoh, J., Oguchi, Y. and Shimizu, N.	Human retina-specific amine oxidase: genomic structure of the gene AOC2, alternatively spliced variant, and mRNA expression in retina	Genomics 51 (2), 293-296 (1998)	98380194	2 (Passes 1 to 3741)	Shima, N. and Kudoh, J.	Direct Submission	Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.	<p>Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.</p> <p>NOBUYUKI SHIMIZU, KEIJI SHIMIZU, KEIJI SHIMIZU, Department of Molecular Biology, 35 Shinanomachi, Shinjuku-ku, Tokyo 160-8582 Japan (E-mail: shimizuk@mol.med.kelto.ac.jp).</p> <p>Tel: 81-3-3351-3706 (ext. 3725), fax: 81-3-3351-3706</p> <p>Location/Qualifiers</p> <p>1..3741</p> <p>/organism="Homo sapiens"</p> <p>/db_xref="Genbank:9606"</p> <p>/chromosome="17"</p> <p>/clone="K5515F"</p> <p>/clone="11b:Kelo BAC"</p> <p>/map="11b:Kelo BAC"</p> <p>/genbank="AOC2"</p> <p>/ECnumber="1.4.3.6"</p> <p>/note="BAO"</p> <p>/number="1"</p> <p>/product="retina-specific amine oxidase"</p> <p>/size="2506..3741"</p> <p>/number="1"</p> <p>871 a 917 c 1026 g 927 t</p>
AB01294251	3741 bp	DNA	PRI	14-APR-2000												
AB012942	Homo sapiens AOC2 gene for retina-specific amine oxidase, exon 1.	AB012942	AB012942.1	GI:3510332	1 of 2	Homo sapiens DNA, clone_11b:Kelo BAC clone:K5515F.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	Imanura, Y., Noda, S., Mashima, Y., Kudoh, J., Oguchi, Y. and Shimizu, N.	Human retina-specific amine oxidase: genomic structure of the gene AOC2, alternatively spliced variant, and mRNA expression in retina	Genomics 51 (2), 293-296 (1998)	98380194	2 (Passes 1 to 3741)	Shima, N. and Kudoh, J.	Direct Submission	Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.	<p>Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.</p> <p>NOBUYUKI SHIMIZU, KEIJI SHIMIZU, KEIJI SHIMIZU, Department of Molecular Biology, 35 Shinanomachi, Shinjuku-ku, Tokyo 160-8582 Japan (E-mail: shimizuk@mol.med.kelto.ac.jp).</p> <p>Tel: 81-3-3351-3706 (ext. 3725), fax: 81-3-3351-3706</p> <p>Location/Qualifiers</p> <p>1..3741</p> <p>/organism="Homo sapiens"</p> <p>/db_xref="Genbank:9606"</p> <p>/chromosome="17"</p> <p>/clone="K5515F"</p> <p>/clone="11b:Kelo BAC"</p> <p>/map="11b:Kelo BAC"</p> <p>/genbank="AOC2"</p> <p>/ECnumber="1.4.3.6"</p> <p>/note="BAO"</p> <p>/number="1"</p> <p>/product="retina-specific amine oxidase"</p> <p>/size="2506..3741"</p> <p>/number="1"</p> <p>871 a 917 c 1026 g 927 t</p>
AB012942	Homo sapiens AOC2 gene for retina-specific amine oxidase, exon 1.	AB012942	AB012942.1	GI:3510332	1 of 2	Homo sapiens DNA, clone_11b:Kelo BAC clone:K5515F.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	Imanura, Y., Noda, S., Mashima, Y., Kudoh, J., Oguchi, Y. and Shimizu, N.	Human retina-specific amine oxidase: genomic structure of the gene AOC2, alternatively spliced variant, and mRNA expression in retina	Genomics 51 (2), 293-296 (1998)	98380194	2 (Passes 1 to 3741)	Shima, N. and Kudoh, J.	Direct Submission	Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.	<p>Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.</p> <p>NOBUYUKI SHIMIZU, KEIJI SHIMIZU, KEIJI SHIMIZU, Department of Molecular Biology, 35 Shinanomachi, Shinjuku-ku, Tokyo 160-8582 Japan (E-mail: shimizuk@mol.med.kelto.ac.jp).</p> <p>Tel: 81-3-3351-3706 (ext. 3725), fax: 81-3-3351-3706</p> <p>Location/Qualifiers</p> <p>1..3741</p> <p>/organism="Homo sapiens"</p> <p>/db_xref="Genbank:9606"</p> <p>/chromosome="17"</p> <p>/clone="K5515F"</p> <p>/clone="11b:Kelo BAC"</p> <p>/map="11b:Kelo BAC"</p> <p>/genbank="AOC2"</p> <p>/ECnumber="1.4.3.6"</p> <p>/note="BAO"</p> <p>/number="1"</p> <p>/product="retina-specific amine oxidase"</p> <p>/size="2506..3741"</p> <p>/number="1"</p> <p>871 a 917 c 1026 g 927 t</p>
AB012942	Homo sapiens AOC2 gene for retina-specific amine oxidase, exon 1.	AB012942	AB012942.1	GI:3510332	1 of 2	Homo sapiens DNA, clone_11b:Kelo BAC clone:K5515F.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	Imanura, Y., Noda, S., Mashima, Y., Kudoh, J., Oguchi, Y. and Shimizu, N.	Human retina-specific amine oxidase: genomic structure of the gene AOC2, alternatively spliced variant, and mRNA expression in retina	Genomics 51 (2), 293-296 (1998)	98380194	2 (Passes 1 to 3741)	Shima, N. and Kudoh, J.	Direct Submission	Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.	<p>Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.</p> <p>NOBUYUKI SHIMIZU, KEIJI SHIMIZU, KEIJI SHIMIZU, Department of Molecular Biology, 35 Shinanomachi, Shinjuku-ku, Tokyo 160-8582 Japan (E-mail: shimizuk@mol.med.kelto.ac.jp).</p> <p>Tel: 81-3-3351-3706 (ext. 3725), fax: 81-3-3351-3706</p> <p>Location/Qualifiers</p> <p>1..3741</p> <p>/organism="Homo sapiens"</p> <p>/db_xref="Genbank:9606"</p> <p>/chromosome="17"</p> <p>/clone="K5515F"</p> <p>/clone="11b:Kelo BAC"</p> <p>/map="11b:Kelo BAC"</p> <p>/genbank="AOC2"</p> <p>/ECnumber="1.4.3.6"</p> <p>/note="BAO"</p> <p>/number="1"</p> <p>/product="retina-specific amine oxidase"</p> <p>/size="2506..3741"</p> <p>/number="1"</p> <p>871 a 917 c 1026 g 927 t</p>
AB012942	Homo sapiens AOC2 gene for retina-specific amine oxidase, exon 1.	AB012942	AB012942.1	GI:3510332	1 of 2	Homo sapiens DNA, clone_11b:Kelo BAC clone:K5515F.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	Imanura, Y., Noda, S., Mashima, Y., Kudoh, J., Oguchi, Y. and Shimizu, N.	Human retina-specific amine oxidase: genomic structure of the gene AOC2, alternatively spliced variant, and mRNA expression in retina	Genomics 51 (2), 293-296 (1998)	98380194	2 (Passes 1 to 3741)	Shima, N. and Kudoh, J.	Direct Submission	Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.	<p>Submitted (19-APR-1998) to the DDBJ/EMBL/GenBank databases.</p> <p>NOBUYUKI SHIMIZU, KEIJI SHIMIZU, KEIJI SHIMIZU, Department of Molecular Biology, 35 Shinanomachi, Shinjuku-ku, Tokyo 160-8582 Japan (E-mail: shimizuk@mol.med.kelto.ac.jp).</p> <p>Tel: 81-3-3351-3706 (ext. 3725), fax: 81-3-3351-3706</p> <p>Location/Qualifiers</p> <p>1..3741</p> <p>/organism="Homo sapiens"</p> <p>/db_xref="Genbank:9606"</p> <p>/chromosome="17"</p> <p>/clone="K5515F"</p> <p>/clone="11b:Kelo BAC"</p> <p>/map="11b:Kelo BAC"</p> <p>/genbank="AOC2"</p> <p>/ECnumber="1.4.3.6"</p> <p>/note="BAO"</p> <p>/number="1"</p> <p>/product="retina-specific amine oxidase"</p> <p>/size="2506..3741"</p> <p>/number="1"</p> <p>871 a 917 c 1026 g 927 t</p>
AB012942	Homo sapiens AOC2 gene for retina-specific amine oxidase, exon 1.	AB012942	AB012942.1	GI:3510332	1 of											

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Db	2461	CTTGGCTCTCTACCCAGAGACCTCGAGAAATCTCTATGTCACTGATGAGGGTGGAG	2520
Oy	2617	gtatctctgaaacccctgtagctgtagaagaagcctgaacccccaacccagagacctta	2676
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Oy	2677	aggatctctgtagctgctcctactgctgctgagtgagtgccatccgcctggaagctatgctct	2736
Db	2581	AGGATTCCTGTAGTGTGCTCCACTGCTGGGCTGAGGTCCATCTCTGACACTATGTCCTCT	2640
Oy	2737	ggccttcccaaacccctgaagcccgctgtagctgagctgtagaagggtctccagcagcccgag	2796
Db	2641	GCCCTTCGACAAACCCCTAGCGCCCGCTGACGGCTCTGTATGAGGGGCTCCAGACAGCCACG	2700
Oy	2797	ggcagagagatgtagtgcctgaagaacacccctcaactcctgtagtactcctctcagatccaagct	2856
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Oy	2857	aagcaetctgacatgggggaaatactccacctcccaactttccaccccaagcctatcccga	2916
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Oy	2917	cttgagagccctggtcttctcactatcccaactccatcccagacaggtctccctctctc	2976
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Oy	2977	tctgcaagtgaacatcaccttgaagaagcagtagcatcacatcctctgtaaaaggaagggcttga	3036
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Oy	3097	aagagctcaagatccaagaggtctgaggttccaagaagtcctgagctcttggtctcaagga	3156
Db	3001	AAGACTCATGATTCAAAGGTCTCTAGGTTTCAGAAAGCTGTGAGCTTTGTGTTCTTAAGCA	3060
Oy	3157	cctgaaatcccaagatcctatctatctatctaaagagtcgaaggtctcaagcaaaaaa	3212
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FEATURE			
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DEFINITION	M.musculus gene for tyrosine kinase receptor.		
ACCESSION	X59560.1	GI:457638	
VERSION	X59560.1		
KEYWORDS	tyrosine kinase receptor.		
SOURCE	house mouse.		
ORGANISM	Mus musculus		
	Eukaryota; Mammalia; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sclurognath; Muridae; Murinae; Mus.		
REFERENCE			
AUTHORS	Mansukhani, A.		
TITLE	Direct Submission		
JOURNAL	Submitted (22-MAY-1991)		
REMARK	Dept of Microbiology, 550 First Avenue, New York School of Medicine, New York NY 10016, USA		
	2 (bases 1 to 4126)		
	Rescigno, J., Mansukhani, A. and Basalico, C.		
	A putative receptor tyrosine kinase with unique structural topology		
	Oncogene 6 (10), 1909-1913 (1991)		
	82019811		
REFERENCE			
AUTHORS	Mansukhani, A.		
TITLE	Direct Submission		
JOURNAL	Submitted (03-MAR-1994)		

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OM nucleic - nucleic search, using sw model

Run on: March 20, 2002, 20:18:27 ; Search time 4182.4 Seconds

(without alignments)
12728.672 Million cell updates/sec

Title: PCT-US01-24104A-2

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Scoring table: IDENTITY MDC

Gapop 10.0, Capext 1.0

Searched: 1472140 seqs, 8248589755 residues

Total number of hits satisfying chosen parameters: 2944280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

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2: gb.htg.*
3: gb.in.*
4: gb.om.*
5: gb.ov.*
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8: gb.pl.*
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34: em.htg.lav.*
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36: em.htg.other.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3227	100.0	3227	9	HUMTYRKINR
2	3217.4	99.7	3227	6	II5526
3	3178.8	98.5	3254	6	II5525
4	3037.6	94.1	3116	9	HSU0025
5	3037.6	94.1	3116	9	HSU0025
6	2060	63.8	4126	10	MATYRK
7	2058	63.8	4072	10	MATYRK
8	740.4	22.9	129402	2	AC011510
9	516.2	16.0	2550	6	AJ39860
10	516.2	16.0	2742	6	AR069422
11	516.2	16.0	3611	6	AR094159
12	516.2	16.0	3611	6	AR103003
13	516.2	16.0	3611	6	AR105287
14	516.2	16.0	3611	6	AR105287
15	516.2	16.0	3611	6	AR105287
16	516.2	16.0	3611	6	AR105287
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45	509.8	15.8	3307	6	AR042418

ALIGNMENTS

RESULT	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	MEDLINE	REFERENCES	AUTHORS
1	HUMTYRKINR	Human tyrosine kinase receptor (ex1) mRNA, complete cds.	M76125.1	GI:292869	tyrosine kinase receptor.	Homo sapiens	Enkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.	1	O'Bryan, J.P., Frye, R.A., Cogswell, J.P.C., Neubauer, A., Kitch, B.B., and Liu, E. T.	al., a transforming gene isolated from primary human myeloid leukemia cells, encodes a novel receptor tyrosine kinase	9201777	2 (bases 1 to 3227)	Bergsagel, P. L., Victor-Kobrin, C., Timblin, C. R., Trepel, J. and	

